

资质文件

Qualification Documents



HENG TONG

公司名称：河北恒通管件集团有限公司

Company Name: Hebei Hengtong Pipe Fittings Group Co., Ltd.

地址：河北省沧州市盐山县韩集镇

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Compan Introduction

Hebei Hengtong Pipe Fitting Group Co., Ltd. is a metal pipe fitting manufacturing enterprise that integrates research and development, manufacturing, and sales. Initially established as a township enterprise in the 1980s, it was restructured to Hebei Cangzhou Hengtong Pipe Fitting Manufacturing Co., Ltd. in 1996, and Hebei Hengtong Pipe Fitting Group was established in 2018. Since the restructuring, the company has always upheld the spirit of focusing on progress and aimed to establish Hengtong as a century-old brand. While becoming a leading domestic industry, the company has sent teams to visit and learn from foreign peers in Germany, Italy, Austria, and other countries, exploring the intelligence of the production process and constantly innovating management software. The company strives to leverage the Belt and Road Initiative to make Hengtong a leader in the global pipe fitting industry when it celebrates its 50th anniversary.



After nearly 30 years of rapid development, relying on the solid technical experience foundation of metal material characteristics and processing technology characteristics, and relying on the upgrading and development needs of pipe fittings in various application cities, we have been carrying out scientific and technological

innovation of cutting-edge products in various fields simultaneously, and always stay ahead of the market.

In the field of refining and chemical industry, the high-pressure hydrogenated pipe fittings made of special materials such as TP321, TP347, TP347H and nickel-based alloy for gasoline, diesel, residual oil, wax oil and hydrocracking units, and N08825 series nickel-based alloy steel pipe fittings for high-sulfur oil and gas purification projects are widely used in large-scale refining and chemical projects, replacing imports and filling the domestic gap.

In the field of oil and gas long-distance pipeline, we have successfully developed X80 steel pipe fittings and bends for bare pipe operation at - 45 °C on the basis of stably mastering the manufacturing process of X80 steel large-diameter thick-wall pipe fittings and bends.

At the same time, we have also made timely technical reserves for X100 steel pipeline supporting products. In the leading cities of boilers and four major pipelines in thermal power plants, the research and production of domestic technology for forged tees, hot-pressed bends and hot-simmered bends made of P91 and P92 materials for ultra-supercritical main steam pipelines have been fully completed, and the research and development of nuclear grade 1 stainless steel pipe fittings, chrome-control carbon steel and alloy steel pipe fittings for nuclear power plants have been actively carried out. In terms of the market, we focus on the oil and gas field and vigorously develop the power generation, coal chemical and other fields. In Sinopec's e-procurement system, its performance has always ranked in the top five. In PetroChina, we are 12 pipe fittings suppliers in the refining and chemical sector. One of the four suppliers of high-pressure hydrogen pipe fittings, and one of the first class suppliers of bends in the pipeline natural gas sector. In CNOOC, we are the only pipe fitting supplier of COOEC. Our company is a major supplier and

network member of high pressure alloy pipe fittings and factory prefabrication in five domestic power groups and well-known enterprises in power station construction such as Harbin Boiler, Shanghai Boiler and Dongguo. In the emerging pipe fittings for coal chemical construction, our company holds an absolute high market share.

In the international market, we maintain close contact with multinational companies such as Fluor, Shell and BASF. It has also worked closely with SEI, China Huanqiu, Meisheng Wally, CPECC and other engineering companies to achieve good reputation and performance in Southeast Asian markets such as Chinese cuisine, Malaysia and Sri Lanka.

The company has developed into a world-class, well-equipped and fully functional production and inspection equipment and facilities. The existing two production plants are divided into independent workshops with clear functions and raw material and finished product warehouses according to product characteristics: nuclear high-pressure pipe fittings workshop, stainless steel pipe fittings cleaning workshop, piping workshop, hot bending pipe workshop, and conventional pipe parts workshop, heat treatment workshop, pipe anti-corrosion workshop, pickling and passivation workshop. The main production equipment includes: 10000-ton universal hydraulic press, 10000-ton three-way extrusion molding machine, 3000-ton stainless steel elbow cold push molding machine, DN1400 medium-frequency heating push bending machine, DN1500 medium-frequency heating pipe bending machine, 16x4.5m natural gas heat treatment furnace, 6x3.5m natural gas heat treatment furnace, 6x3.5m trolley resistance furnace, DN2200 pipe fittings submerged arc automatic welding machine, DN2000 vertical lathe, liquid epoxy anti-corrosion of elbow pipe fittings. There are two epoxy powder anti-corrosion production lines and two purified water treatment devices for production, and the supporting series of advanced production equipment and high-precision tooling can meet the production

requirements of the whole series of pipe fittings.

According to the needs of product quality inspection and new material product research and development, the company has equipped a quality inspection center with complete functions and advanced equipment, which can meet the inspection of the chemical composition, mechanical properties, metallographic structure, welding performance, corrosion resistance and pressure resistance of the current new materials and new process products. Main detection equipment includes: Spike all-element direct-reading spectrometer made in Germany, Hitachi multi-channel (Fe, Ni, Ti) all-element direct-reading spectrometer made in Germany, infrared carbon and sulfur analyzer, visible spectrophotometer, 1000KN Electro-hydraulic servo universal testing machine, Sansi brand 300KN electronic high temperature tensile testing machine, pendulum impact testing machine, - 196C impact testing cryometer, microcomputer analysis high power metallographic microscope, hydraulic testing machine and other metal material physical and chemical testing equipment, radiographic flaw detector, ultrasonic flaw detector and other nondestructive testing equipment, as well as sample high temperature sensitization furnace and intergranular corrosion and pitting corrosion device for testing the corrosion resistance of stainless steel pipe fittings. The advanced degree and accuracy of all testing equipment and facilities meet the requirements of relevant national standards.

The company is a provincial high-tech enterprise and the innovation and entrepreneurship team of the "Giant Plan" in Hebei Province. It has a team with superb technology and lofty aspirations, and has passed ISO9001 successively ISO14001, OHSAS18001, API, Q1, ASME, ABS, CE, CCS and other management system certification. In the face of the rapidly developing pipeline equipment manufacturing industry, we adhere to the development concept of professionalism, dedication, passion and innovation, adhere to the customer-oriented and credit-oriented service standards, and use our professional technical advantages to solve problems. The most



urgent and practical needs of users are to provide perfect services for users with high-quality products and advanced technology.

Business license

统一社会信用代码		营业执照		扫描二维码登录“国家企业信用信息公示系统”了解更多登记、备案、许可、监管信息。	
9113092510971914XX		副本编号: 4-3			
名称	河北恒通管件集团有限公司	注册资本	壹亿贰仟万元整		
类型	其他有限责任公司	成立日期	1996年11月07日		
法定代表人	韩连新	营业期限	1996年11月20日至2026年11月19日		
经营范围	生产销售高中低压管件 法兰 钢制管材 高压管道工厂化配制 耐磨管道 衬塑防腐保温管道 垫片 弹簧支吊架 机电产品及五金类经营本企业自产产品及技术的出口业务和本企业所需的机械设备 零配件 原辅材料及技术的进口业务 但国家限定公司经营或禁止进出口的商品及技术除外				
		住 所	盐山县韩集镇后韩村		
		登记机关	盐山县行政审批局		
			2020年10月20日		

国家企业信用信息公示系统网址:

国家企业信用信息公示系统报送公示年度报告。

国家市场监督管理总局监制

中华人民共和国 特种设备生产许可证

Production License of Special Equipment
People's Republic of China

编号: TS2713453-2026

单位名称: 河北恒通管件集团有限公司

住 所: 盐山县韩集镇后韩村

制造地址: 1. 河北省沧州市盐山县韩集镇后韩村
2. 河北省沧州市盐山县正港工业园

经审查, 获准从事以下特种设备的生产活动:

许可项目	许可子项目	许可参数	备注
压力管道元件制造	压力管道管件(无缝管件(B1、B2)、有缝管件(B1、B2))	—	具体产品范围见型式试验证书(制造地址1、制造地址2)
压力管道元件制造	压力管道管件(锻制管件)	—	限制造地址1
压力管道元件制造	压力管道法兰(钢制锻造法兰)	—	限制造地址1
压力管道元件制造	元件组合装置	—	限工厂化预制管段(限制造地址2)

发证机关: 河北省市场监督管理局

有效期至: 自2022年03月31日
至2026年03月30日

发证日期: 2022年02月16日

Enterprise qualification certificate

1、Bank account opening license

开户许可证	
核准号: J1449000008603	编号: 1210- 03186675
经审核, 河北恒通管件集团有限公司	符合开户条件, 准予
开立基本存款账户。	
法定代表人(单位负责人) 韩连新	开户银行 中国农业银行股份有限公司盐山县支行
账 号 50621001040001817	
<div>发证机关(盖章) 2019 年 02 月 02 日</div> <div>2018 年度账户年检合格</div> <div>2019 年度账户年检合格</div> <div>2020 年度账户年检合格</div> <div>经办人: [Signature]</div> <div>经办人: [Signature]</div> <div>经办人: [Signature]</div> <div>经办人: [Signature]</div>	

2、Quality management system certification



中国船级社质量认证公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION COMPANY

质量管理体系认证证书 QUALITY MANAGEMENT SYSTEM CERTIFICATE

格式: MI1102R01A

编号: No. 00522Q0635R4M

兹证明

河北恒通管件集团有限公司

(注册/运营地址: 盐山县韩集镇后韩村 邮编: 061303;
统一社会信用代码: 9113092510971914XX)

This is to certify that the Quality Management System (QMS) of

HEBEI HENG TONG PIPE FITTINGS GROUP CO., LTD.

(Registered/Operation Add: HANJI TOWN, HOULAN VILLAGE, YANSHAN COUNTY, 061303, P.R.CHINA;
Uniform Code of Social Credit: 9113092510971914XX)

建立的质量管理体系符合标准: **GB/T19001-2016/ISO9001:2015。**

has been found to conform to standard: **GB/T19001-2016/ISO9001:2015.**

本证书对下述范围的质量管理体系有效: *压力管道管件、压力管道法兰的生产(资质范围内), 管件、管道内外防腐*。

This certificate is valid to the following scope for QMS: ***PRODUCTION OF PRESSURE PIPE FITTINGS AND FLANGE OF PRESSURE PIPE (WITHIN THE SCOPE OF QUALIFICATION); INNER AND OUTER ANTICORROSION OF THE PIPE FITTINGS AND PIPELINES***.

上一认证周期截止时间: 2022 年 3 月 6 日/Last cycle Deadline: 6 March 2022

再认证审核时间: 2022 年 2 月 14 日-2022 年 2 月 16 日/Recertification audit time: 14 February 2022-16 February 2022

本证书有效期至: **2025 年 3 月 6 日。**

This certificate is valid until: **6 March 2025.**

注: 本证书覆盖的多场所见附件。Note: See the details of sites in the appendix.



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C005-M



发证日期: **2022 年 2 月 22 日。**

Issued on: **22 February 2022.**

签 发: 

Issued by: **Huang Shiyuan**

本证书根据中国船级社质量认证公司认证规范及有关规定颁发。获证组织必须定期接受监督审核并合格此证书方继续有效。当本证书包括证书附件时, 则附件必须与主证书同时使用。每一页证书(含附件)均须有本公司盖章方可生效。任何单位或个人均不应摘录或节选本证书的内容。有关各方对所持证书的真实性负责。可向本公司咨询。本证书信息可在国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)上查询。

This Certificate is issued pursuant to China Classification Society Certification Company (CCSC) Rules for System Certification and related procedures. This certificate continues to be valid only by passing the periodic supervision. When the certificate consists of appendices, all the appendices together with the certificate are taken as a whole and shall be used simultaneously. No certificate page is valid without bearing the stamp of CCSC. Any part of the certificate including the appendices can not be extracted or abridged by any unit or individual in any form. Related parties who about the authenticity of the certificate may consult with CCSC. The information of this certificate can be inquired through the official website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).

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3、Environmental Management System Certification



中国船级社质量认证公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION COMPANY

环境管理体系认证证书 ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

格式: M1102R02

编号: No. 00522E0636R3M

兹证明

河北恒通管件集团有限公司
(注册/运营地址: 盐山县韩集镇后韩村 邮编: 061303)

This is to certify that the Environmental Management System (EMS) of

HEBEI HENG TONG PIPE FITTINGS GROUP CO., LTD.

(Registered/Operation Add: HANJI TOWN, HOUHAN VILLAGE, YANSHAN COUNTY, 061303, P.R.CHINA)

建立的环境管理体系符合标准: **GB/T24001-2016/ISO14001:2015**.
has been found to conform to standard: **GB/T24001-2016/ISO14001:2015**.

本证书对下述范围的环境管理体系有效: *压力管道管件、压力管道法兰的生产(资质范围内), 管件、管道内外防腐*。

This certificate is valid to the following scope for EMS: ***PRODUCTION OF PRESSURE PIPE FITTINGS AND FLANGE OF PRESSURE PIPE (WITHIN THE SCOPE OF QUALIFICATION); INNER AND OUTER ANTICORROSION OF THE PIPE FITTINGS AND PIPELINES***.

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EMS



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国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C005-M



发证日期: **2022 年 2 月 22 日**。

Issued on: **22 February 2022**.

签 发: 

Issued by: **Huang Shiyuan**

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4、Occupational Health and Safety Management System Certificate



中国船级社质量认证公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION COMPANY

职业健康安全管理体系认证证书

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

格式: MI1102R03

编号: No. 00522S0637R3M

兹证明

河北恒通管件集团有限公司

(注册/运营地址: 盐山县韩集镇后韩村 邮编: 061303)

This is to certify that the Occupational Health and Safety Management System (OHSMS) of

HEBEI HENG TONG PIPE FITTINGS GROUP CO., LTD.

(Registered/Operation Add: HANJI TOWN, HOUHAN VILLAGE, YANSHAN COUNTY, 061303, P.R.CHINA)

建立的职业健康安全管理体系符合标准: **GB/T45001-2020/ISO45001:2018**。

has been found to conform to standard: **GB/T45001-2020/ISO45001:2018**.

本证书对下述范围的职业健康安全管理体系有效: *压力管道管件、压力管道法兰的生产 (资质范围内), 管件、管道内外防腐*。

This certificate is valid to the following scope for OHSMS: ***PRODUCTION OF PRESSURE PIPE FITTINGS AND FLANGE OF PRESSURE PIPE (WITHIN THE SCOPE OF QUALIFICATION); INNER AND OUTER ANTICORROSION OF THE PIPE FITTINGS AND PIPELINES***.

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This certificate is valid until: **6 March 2025**.

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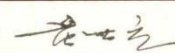


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管理体系
MANAGEMENT SYSTEM
CNAS C005-M



发证日期: **2022 年 2 月 22 日**。

Issued on: **22 February 2022**.

签 发: 
Issued by: **Huang Shiyuan**

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5、HSE Management System Certificate



格式: MI1102R07

中国船级社质量认证公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION COMPANY
HSE 管理体系评价证书
HSE MANAGEMENT SYSTEM CERTIFICATE

编号: No. CCSC22HSE0638R3M

兹证明

河北恒通管件集团有限公司

(注册/运营地址: 盐山县韩集镇后韩村 邮编: 061303)

This is to certify that the HSE Management System of

HEBEI HENG TONG PIPE FITTINGS GROUP CO., LTD.

(Registered/Operation Add: HANJI TOWN, HOUHAN VILLAGE, YANSHAN COUNTY, 061303, P.R.CHINA)

建立的 HSE 管理体系符合体系标准: **SY/T6276-2014**has been found to conform to system standard: **SY/T6276-2014**

本证书对下述范围的 HSE 管理体系有效: *压力管道管件、压力管道法兰的生产(资质范围内), 管件、管道内外防腐*。

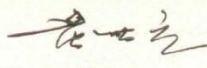
This certificate is valid to the following scope for HSE Management System: ***PRODUCTION OF PRESSURE PIPE FITTINGS AND FLANGE OF PRESSURE PIPE (WITHIN THE SCOPE OF QUALIFICATION); INNER AND OUTER ANTICORROSION OF THE PIPE FITTINGS AND PIPELINES***.

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发证日期: **2022 年 2 月 22 日**。Issued on: **22 February 2022**.签 发: Issued by: **Huang Shiyuan**

本证书根据中国船级社质量认证公司认证规范及有关规定签发, 获证组织须定期接受监督审核并符合合格证书方继续有效。当本证书包括证书附件时, 则附件必须与主证书同时使用, 每一页证书(含附件)均须有本公司盖章方可生效。任何单位或个人均不应篡改或节选本证书的内容。有关各方对所持证书的真实性负责, 如有疑问, 可向我公司咨询。
This Certificate is issued pursuant to China Classification Society Certification Company (CCSC) Rules for System Certification and related procedures. This certificate continues to be valid only by passing the periodic supervision. When the certificate consists of appendix(es), all the appendix(es) together with the certificate are taken as a whole and shall be used simultaneously. No certificate page is valid without bearing the stamp of CCSC. Any part of the certificate including the appendix(es) can not be extracted or abridged by any unit or individual in any form. Related parties who about the authenticity of the certificate may consult with CCSC.

中国船级社质量认证公司 北京市东黄城根南街40号 100006 电话: +86(10)56313400 网址: www.ccs-c.com

40 Dong Huang Cheng Gen Nan Jie, Beijing, 100006, China Tel: +86(10)56313400 Website: www.ccs-c.com

No. A 00023837

6、Certificate of works Approval



中国船级社
CHINA CLASSIFICATION SOCIETY
工厂认可证书
CERTIFICATE OF WORKS APPROVAL

证书编号/Certificate No.
QH20PWA00006

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

河北恒通管件集团有限公司
Hebei Hengtong Pipe Fittings Group Co., Ltd.

地址/Address

中国河北省沧州市盐山县韩集镇后韩村
Houhan Village Hanji Town, Yanshan County, Hebei Province

产品名称/Product

钢质管件
Steel Pipe Fittings

附加标志/Notations

无/Ni1.

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》(2018)及其修改通报第3篇第2章
Chapter 2, Part Three of China Classification Society Rules for Classification of Sea-Going Steel Ships 2018 and its Amendments

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

产品明细/Product Description

钢质管件/Steel Pipe Fittings (M0001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	弯头、三通、异径管、法兰 Elbow, Triplet, Reducer, Flange	
材料/Material	见附页 See Additional Page	
公称通径/Nominal Diameter	见附页 See Additional Page	
热处理/Heat Treatment	见附页 See Additional Page	
制造方法/Method of Manufacture	见附页 See Additional Page	

批准的图纸/Approved Drawings

图纸批准号/Drawings Approval No.: QH20PWA00006

证书有效期至/This Certificate is valid until 2024年10月15日/Oct. 15, 2024

发证机构/Issued by 中国船级社秦皇岛分公司
China Classification Society Qinhuangdao Branch

签发日期/Date 2020年10月19日
Oct. 19, 2020

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效，电子证书含数字签名方为有效。本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时，可以向我社检验机构咨询。
This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.
Form No. W01. 联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)



UTN:P020-41068547

7、API certificate



Certificate of Registration

APIQR® REGISTRATION NUMBER
2308

This certifies that the quality management system of
HEBEI HENG TONG PIPE FITTINGS GROUP CO., LTD.
Hanji Town, Yanshan County
Cangzhou, Hebei
People's Republic of China

*has been assessed by the American Petroleum Institute Quality Registrar (APIQR®) and
found it to be in conformance with the following standard:*

ISO 9001:2015

The scope of this registration and the approved quality management system applies to the
Manufacture of Steel Pipe Fittings

APIQR® approves the organization's justification for excluding:

8.3 Design and Development of Products and Services

Effective Date: JUNE 12, 2023
Expiration Date: JUNE 12, 2026
Registered Since: JUNE 12, 2017

Anchal Liddar

*Senior Vice President of
Global Industry Services*

Accredited by Member of
the International
Accreditation Forum
Multilateral Recognition
Arrangement for Quality
Management Systems



This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of APIQR's Registration Program and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. Further clarifications regarding the scope of this certificate and the applicability of ISO 9001 standard requirements may be obtained by consulting the registered organization. This certificate has been issued from APIQR offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A., it is the property of APIQR, and must be returned upon request. To verify the authenticity of this certificate, go to www.api.org/compositelist.



2021-129 | 08.21 | PDF



American
Petroleum
Institute

REGISTRATION NO. Q1-2210

Certificate of Registration

The American Petroleum Institute certifies that the quality management system of

HEBEI HENG TONG PIPE FITTINGS GROUP CO., LTD.

Hanji Town, Yanshan County

Cangzhou, Hebei

People's Republic of China

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Spec Q1, 9th Edition

The scope of this registration and the approved quality management system applies to the

Manufacture of Steel Pipe Fittings

API approves the organization's justification for excluding
Design and Development; Servicing



Effective Date:

JUNE 12, 2023

Expiration Date:

JUNE 12, 2026

Registered Since:

JANUARY 30, 2014



Senior Vice President of Global Industry Services

This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of API Spec Q1, *Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry*, and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. This certificate has been issued from API offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A. It is the property of API and must be returned upon request.
To verify the authenticity of this certificate, go to www.api.org/compositelist.

®

2021-164 | 11.21 | Digital

8、CE

شهادة – Certificat – 증명서 – 證明書 – Сертификат – Certificate

Material Manufacturer Certificate



No. 1N190123.HHP0Q12
Technical Construction File no. CLK(15)-032- PED

Certificate's Holder: Hebei Hengtong Pipe Fittings Group Co., Ltd.
Hanji Town Yanshan County, Hebei Province 061303
People's Republic of China

Certification ECM Mark:



Product: Pipe Fittings, Forged flange, Forged pipe fittings
Model(s): Product Material Scope:
ASTM A106, ASTM A234, ASTM A403, ASTM A516,
ASTM A387, ASTM A240, ASTM A182, ASTM A181,
API5L, ASTM A105, ASTM A420, ASTM A350,
ASTM A333, ASTM A860, ASTM A815, ASTM A515,
ASTM A694, DIN17175 (see the following annex I)

Verification to: Standard:
Has implemented, operates and maintains a
Quality Assurance System

related to CE Directive(s):
2014/68/EU (Pressure Equipment) ANNEX I, PARAGRAPH 4.3

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.entecerma.it. This Certificate of Compliance can be checked for validity at www.entecerma.it

This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the **CE** Marking:



We attest that a TCF for the **CE** Marking process is in place. Whereas the Manufacturer is Responsible to start the **CE Marking Certification Procedure** through an appointed Notified Body and the perform all the necessary activities, as required by the Directive and accepted by the Notified Body, before placing the **CE** Mark on the product(s).

Date of issue 23 January 2019

Expiry date 22 January 2024

Chief Manager
Marta Moringa

Deputy Manager
Amanda Payne



Ente Certificazione Macchine Srl

Via C. Belli, 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO) – Italy
☎ +39 051 6705141 ☎ +39 051 6705156 ✉ info@entecerma.it 🌐 www.entecerma.it

Annex I

No. 1N190123.HHP0Q12

Technical Construction File no. CLK(15)-032- PED



Details of Validity of Approval as Manufacturer Materials in accordance to Directive 2014/68/EU (Pressure Equipment) Annex I, Paragraph 4.3; Acceptance of type 3.1 Material Certificates according to EN 10204:2004			
Type of Product	Material Specification	Materials-term	Nominal Size (DN)
Seamless Pipe Fittings	ASTM A106	Grade A, Grade B, Grade C	DN15-DN600
Seamless Pipe Fittings	ASTM A234	WPB, WPC, WP1, WP12, WP11, WP22, WP5, WP9, WP91, WP911	DN15-DN600
Seamless Pipe Fittings	ASTM A403	WP304, WP304L, WP304H, WP304N, WP316WP316L, WP316H, WP316N, WP321, WP321H	DN15-DN600
Seamless Pipe Fittings	ASTM A420	WPL6, WPL3	DN15-DN600
Seamless Pipe Fittings	ASTM A333	Gr6, Gr3	DN15-DN600
Seamless Pipe Fittings	ASTM A860	WPHY60, WPHY65, WPHY70, WPHY80	DN15-DN900
Seamless Pipe Fittings	ASTM A815	S31803, S32750, S32205	DN15-DN600
Seamless Pipe Fittings	ASTM A515	Gr60, Gr65, Gr70	DN15-DN600
Welded Pipe Fittings	ASTM A516	Grade 55, Grade 60, Grade 65, Grade 70	DN600-DN1500
Welded Pipe Fittings	ASTM A387	Grade 2, Grade 12, Grade 11, Grade 22, 22L, Grade 21, 21L, Grade 5, Grade 9, Grade 91	DN600-DN1500
Welded Pipe Fittings	ASTM A240	S30400, S30403, S30409, S30451, S31600, S31603, S31609, S31651, S32100, S32109, S34700, S34709	DN600-DN1500
Forged flange and Forged pipe fittings	ASTM A182	F91, F11, F12, F911, F304, F304H, F304L, F304N, F316, F316H, F316N, F321, F321H, F51, F316L	DN15-DN600
Forged flange and Forged pipe fittings	ASTM A181	Class 60, Class 70	DN15-DN600
Forged flange and Forged pipe fittings	ASTMA350	LF2	DN15-DN600
Forged flange and Forged pipe fittings	ASTMA694	F60, F65, F70, F42, F46, F48, F50, F52, F56	DN15-DN600
Forged flange and Forged pipe fittings	ASTMA105	A105	DN15-DN1000
Welded Pipe Fittings	API5L	A25, A, B, X42, X46, X52, X56, X60, X65, X70, X80	DN100-DN1500
Seamless Pipe Fittings	DIN17175	St35.8, St45.8, 17Mn4, 19Mn5, 15Mo3 13CrMo44, 10CrMo910, 14MoV63, X20CrMoV121	DN15-DN600

Ente Certificazione Macchine Srl

 Via Ca' Bella, 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO) - ITALY
 ☎ +39 051 6705141 ☎ +39 051 6705156 ✉ info@entecerma.it 🌐 www.entecerma.it

9、ABS



CERTIFICATE NUMBER 20-SQ1985383-PDA
EFFECTIVE DATE 13-May-2020
EXPIRATION DATE 12-May-2025
ABS TECHNICAL OFFICE CN Shanghai ESD

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

HEBEI HENG TONG PIPE FITTINGS GROUP CO., LTD.

Located at

**HOUHAN VILLAGE, HANJI TOWN, YANSHAN COUNTY,
CANGZHOU CITY, HEBEI PROVINCE, CHINA, HEBEI, China**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Fitting, Flange

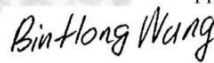
Model ASME B16.9 90° Elbow, Concentric Reducer, Reducing Tee & ASME B16.5 Flange

This Product Design Assessment (PDA) Certificate remains valid until 12/May/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping



Bin-Hong Wang
Director

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

Certificate of Product Design Assessment

Page 1 of 1

HEBEI HENG TONG PIPE FITTINGS GROUP CO.

HOZHAN VILLAGE, HANJI TOWN, YANSHAN COUNTY, CANGZHOU CITY, HEBEI PROVINCE, CHINA
HEBEI

China 061300

Telephone: +86 317-6330928

Fax: +86 317-6330775

Email: stgdjyq@163.com

Web: www.hengtonggj.com

Tier: 3 - Type Approved, unit certification not required

Product: Fitting, Flange

Model: ASME B16.9 90° Elbow, Concentric Reducer, Reducing Tee & ASME B16.5 Flange

Intended Service:

Shipboard Bilge, Ballast, Cooling, Exhaust, Steam, Fuel Oil, Lubrication and Hydraulic System.

Description:

ASME B16.5 Class 300 Flanges -

Flange Type: Welding Neck;

Size Range: NPS 10;

Material: ASTM A105, ASTM A182 F304.

ASME B16.9 90° Elbow -

Size Range: NPS 8;

Material: ASTM A312 TP304.

ASME B16.9 90° Elbow -

Size Range: NPS 10;

Material: ASTM A234 WPB.

ASME B16.9 Concentric Reducer -

Size Range: NPS 10x8;

Material: ASTM A312 TP304.

ASME B16.9 Reducing Tee -

Size Range: NPS 12x12x8;

Material: ASTM A312 TP304.

Rating:

Temperature Rating: For stainless steel fitting & flanges > 400 deg C;

For carbon steel fitting & flanges <=400 deg C;

Design Pressure: A234 WPB Elbow 5 MPa; A312 TP304 Elbow 4.8 MPa; A312 TP304 Reducer 5 MPa; A312 TP304

Reducing Tee 3.1 MPa; Flange 300 lb;

Service Restriction:

Unit Certification is not required for this product.

If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) All steel pipe fittings are to be suitable for the intended piping system.
- 3) Butt welded fittings are to be in accordance with 4-6-2/5.5.1 of ABS Marine Vessels Rules.
- 4) Socket welded fittings are to be in accordance with 4-6-2/5.5.2 of ABS Marine Vessels Rules.
- 5) Ferrous materials used in piping systems operating at lower than -18 °C (0 °F), are to have adequate notch toughness property in accordance with 4-6-2/3.1.6 of ABS Marine Vessels Rules.
- 6) All steel pipe fittings are to be used for the steel pipes of equivalent sizes (nominal pipe size, wall thickness or schedule number, etc.). Selection of the fittings is also subject to the wall thickness calculation, which takes into account the design pressure and temperature of the piping system and the materials of the selected fittings, in accordance with 4-6-2/5.1.1 & 4-6-2/5.1.2 of ABS Marine Vessels Rules and to the minimum wall thickness requirement in 4-6-2/5.1.3 ABS Marine Vessels Rules.
- 7) Design temperatures of the butt welded fittings and socket welded fittings are to be limited as provided by the applicable piping code or regulation for the materials of constructions of the fittings.

HEBEI HENG TONG PIPE FITTINGS GROUP CO.

HOUHAN VILLAGE, HANJI TOWN, YANSHAN COUNTY, CANGZHOU CITY, HEBEI PROVINCE, CHINA
HEBEI

China 061300

Telephone: +86 317-6330928

Fax: +86 317-6330775

Email: stgdjyq@163.com

Web: www.hengtonggj.com

Tier: 3 - Type Approved, unit certification not required

8) For sea water piping systems in which sea water may be retained within the piping system in a stagnant or low flow condition (i.e., less than 1 m/sec), there is a potential for chloride pitting and the following grades are not to be used for the piping or piping components:

304 and 304L stainless steels

316 and 316L stainless steels with a molybdenum content of less than 2.5%

Other stainless grades when used are to be confirmed suitable for the application by the manufacturer. Where the water spray system will be maintained in a dry condition and the system will only be exposed to seawater during actual operations of the water spray, 316 and 316L stainless steels with a molybdenum content of less than 2.5% may be used provided there are provisions to immediately flush the system with fresh water and then dry the internal portions of the system piping and components. See 4-6-2/3.1.2 of ABS Marine Vessels Rules.

Notes/Drawing/Documentation:

Drawing No. Correspondence, Fee Confirmation and PDA Request Form, Revision: 0, Pages: 1

Drawing No. NA2, Declaration of Conformity for Renewal, Revision: 0, Pages: 1

Drawing No. HT-JS-001, Calculation sheet, Revision: 0, Pages: 1

Drawing No. NA-1, Elbow Reducer Tee, Revision: 0, Pages: 1

Drawing No. NA-2, Raw Material List, Revision: 0, Pages: 1

Drawing No. NA-3, The Test Outline, Revision: 1, Pages: 2

Drawing No. NA-4, Test Reports TJ2920004-A, Revision: 0, Pages: 1, dated 30-Jun-2015, Testing Organization: Hebei Cangzhou Hengtong Pipe Fittings Co., Ltd.

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 12/May/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS**ABS Rules:**

Marine Vessels Rules (2020): 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/5.5.1 and 4-6-2/5.5.2.

Mobile Offshore Units Rules (2020): 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-1/11.11.

National:

ASME B16.5-2017;

ASME B16.9-2018.

International:

NA

Government:

NA

EUMED:

NA

HEBEI HENG TONG PIPE FITTINGS GROUP CO.

HOUHAN VILLAGE, HANJI TOWN, YANSHAN COUNTY, CANGZHOU CITY, HEBEI PROVINCE, CHINA
HEBEI

China 061300

Telephone: +86 317-6330928

Fax: +86 317-6330775

Email: stgdjq@163.com

Web: www.hengtonggj.com

Tier: 3 - Type Approved, unit certification not required

OTHERS:

NA

10、ASME PP



CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Hebei Hengtong Pipe Fitting Group Co., Ltd.
No. 68 Houhan Village, Hanji Town,
Yanshan County, Cangzhou City, Hebei Province 061303
People's Republic of China

SCOPE:

Fabrication and assembly of pressure piping at the above location only

AUTHORIZED: **March 13, 2023**
EXPIRES: **December 16, 2025**
CERTIFICATE NUMBER: **58391**



Board Chair, Conformity Assessment



Managing Director, Standards & Engineering Services

The American Society of Mechanical Engineers



Certificate of scientific and technological achievements

	成 果 名 称: X80 D1422×58 钢板制模压低温三通
	成 果 水 平: 国际先进
	完 成 单 位: 河北省沧州恒通管件制造有限公司
	完 成 人: 韩木杰 史训良 季艳庆 商晓东 赵相耀 刘振猛 杨云峰 赵立祥 高文彬 许彦 丰振军
河北省科学技术成果	省级登记号: 20182231
证 书	
河北省科学技术厅	二〇一八年十二月七日

	成 果 名 称: X70 -45℃环境用钢板制热压低温三通
	成 果 水 平: 国际先进
	完 成 单 位: 河北恒通管件集团有限公司
	完 成 人: 韩木杰 史训良 季艳庆 商晓东 赵相耀 刘振猛 杨云峰 赵立祥 高文彬
河北省科学技术成果	省级登记号: 20191944
证 书	
河北省科学技术厅	二〇一九年十月十日









HENG TONG
恒通管件



河北省科学技术成果 证书

河北省科学技术厅

成果名称: 双金属复合钢板制 (L415MS+N08825)
弯头的制造工艺

成果水平: 国内先进

完成单位: 河北省沧州恒通管件制造有限公司

完成人: 韩木杰 赵振国 季艳庆 史训良
杨云峰 赵立祥 王焕发 刘振猛

省级登记号: 20140624



二〇一四年三月十二日



河北省科学技术成果 证书

河北省科学技术厅

成果名称: IB555钢级D1422感应加热弯管的制造

成果水平: 国内先进

完成单位: 河北省沧州恒通管件制造有限公司

完成人: 韩木杰 赵振国 季艳庆 商晓东
史训良 刘振猛 杨云峰 赵立祥
高文彬

省级登记号: 20140497



二〇一四年二月十九日



河北省科技成果证书

证书编号：2003-0251

项目名称：西气东输用 X70 三通产品开发及工艺研究

完成单位：河北省沧州恒通管件制造有限公司

完成者姓名：徐振清 尹文升 韩智明 赵伟星
韩连新 祭立柱 刘宝鹏 张景玉
李振帮

省级登记号：20030251

发证日期：二〇〇三年三月五日

河北省科学技术厅





河北省科技成果证书

证书编号：2003-0252

项目名称：西气东输用 X60 弯头产品开发及工艺研究

完成单位：河北省沧州恒通管件制造有限公司

完成者姓名：徐振清 尹文升 韩智明 赵伟星
韩连新 祭立柱 刘宝鹏 张景玉
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省级登记号：20030252

发证日期：二〇〇三年五月五日

河北省科学技术厅





河北省科技成果证书

证书编号: 2002-0851

项目名称: 西气东输项目用 X52 弯头新产品开发及
工艺研究

完成单位: 河北沧州恒通管件制造有限公司

完成者姓名: 徐振清 尹文升 韩智明 赵伟星
韩连新 祭立柱 张景玉 刘宝鹏

省级登记号: 20020851

发证日期: 二〇〇二年十二月二十二日

河北省科学技术厅



Letter of Patent

证书号第 2400946 号



北京市顺义区地方税务局
印花税
代扣专用章
国家知识产权局

发 明 专 利 证 书

发 明 名 称: X80 钢级 D1422*30. 8 中频感应加热煨制弯管的制造工艺

发 明 人: 祭立柱; 韩木杰

专 利 号: ZL 2014 1 0214220. 4

专利申请日: 2014 年 05 月 21 日


专 利 权 人: 河北省沧州恒通管件制造有限公司

授权公告日: 2017 年 03 月 01 日

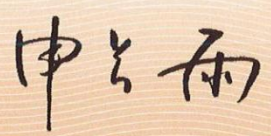
本发明经过本局依照中华人民共和国专利法进行审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长
申长雨




2017 年 03 月 01 日

第 1 页 (共 1 页)

证书号第2400947号



发明专利证书

发明名称: X80 钢级 DN1400 厚壁三通的制造工艺

发明人: 祭立柱; 韩木杰

专利号: ZL 2014 1 0214377.7

专利申请日: 2014 年 05 月 21 日

专利权人: 河北省沧州恒通管件制造有限公司

授权公告日: 2017 年 03 月 01 日

本发明经过本局依照中华人民共和国专利法进行审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长
申长雨

申长雨



第 1 页 (共 1 页)

证书号第 1131257 号



发 明 专 利 证 书

发 明 名 称: 埋弧自动焊 X80 级钢板制热压厚壁三通工艺方法

发 明 人: 韩连新; 祭立柱

专 利 号: ZL 2011 1 0069621.1

专利申请日: 2011 年 03 月 23 日

专 利 权 人: 河北省沧州恒通管件制造有限公司

授权公告日: 2013 年 01 月 30 日

本发明经过本局依照中华人民共和国专利法进行审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长

田力普



第 1 页 (共 1 页)

证书号第 1131191 号



发 明 专 利 证 书

发 明 名 称：中频感应加热煨制 X100 钢级大口径弯管工艺

发 明 人：韩连新;祭立柱

专 利 号：ZL 2011 1 0069641.9

专利申请日：2011 年 03 月 23 日

专 利 权 人：河北省沧州恒通管件制造有限公司

授权公告日：2013 年 01 月 30 日

本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长

田力普



第 1 页 (共 1 页)

证书号第 1131468 号



发 明 专 利 证 书

发 明 名 称: X100 钢级钢板热压弯头制造工艺

发 明 人: 韩连新; 祭立柱

专 利 号: ZL 2011 1 0069591.4

专利申请日: 2011 年 03 月 23 日

专 利 权 人: 河北省沧州恒通管件制造有限公司

授权公告日: 2013 年 01 月 30 日

本发明经过本局依照中华人民共和国专利法进行审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长

田力普



第 1 页 (共 1 页)

证书号第2860761号



发 明 专 利 证 书

发 明 名 称：一种燃气加热热推不锈钢无缝弯头的制造工艺方法

发 明 人：祭立柱;韩木杰

专 利 号：ZL 2016 1 0471980.2

专利申请日：2016年06月24日

专 利 权 人：河北省沧州恒通管件制造有限公司

授权公告日：2018年03月27日

本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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申长雨

申长雨



第 1 页 (共 1 页)

证书号第2892599号



发明专利证书

发明名称：一种双金属复合钢板制三通制造工艺方法

发明人：祭立柱；韩木杰

专利号：ZL 2016 1 0471554.9

专利申请日：2016年06月24日

专利权人：河北省沧州恒通管件制造有限公司

授权公告日：2018年04月20日

本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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第1页(共1页)

证书号第 2892655 号



发 明 专 利 证 书

发 明 名 称：一种双金属复合钢板制弯头制造工艺方法

发 明 人：祭立柱;韩木杰

专 利 号：ZL 2016 1 0471552.X

专利申请日：2016 年 06 月 24 日

专 利 权 人：河北省沧州恒通管件制造有限公司

授权公告日：2018 年 04 月 20 日

本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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第 1 页 (共 1 页)

证书号第646524号



发明专利证书

发明名称: X80 级钢板热挤压三通工艺方法

发明人: 韩连新; 蔡立柱

专利号: ZL 2009 1 0067704. X

专利申请日: 2009 年 01 月 15 日

专利权人: 河北省沧州恒通管件制造有限公司

授权公告日: 2010 年 06 月 30 日

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局长

田力普



第 1 页 (共 1 页)

证书号第675708号



发明专利证书

发明名称: X80 级钢板热挤压弯头工艺方法

发明人: 韩连新; 祭立柱

专利号: ZL 2009 1 0067705.4

专利申请日: 2009 年 01 月 15 日

专利权人: 河北省沧州恒通管件制造有限公司

授权公告日: 2010 年 09 月 22 日

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田力普



第 1 页 (共 1 页)

Key Projects Sales Performance

序号 No.	业主单位名称 Buyer's name	项目概况 Project Name	主要供货产品类型 Mainly Supplied Fittings Type	合同总价（百万） Total Price(Million)	供货年份 Year
1	中国石化海南炼油化工有限公司 Sinopec Hainan Petrochemical Co., Ltd	100 万吨/年乙烯及炼油改扩建项目 1 million tons / year ethylene and oil refining renovation and expansion project	高压临氢，高压，不锈钢焊接，低温钢，合金钢，碳钢无缝管件 High pressure hydrogen, high pressure, Sainless steel welded, Low-temperature steel , Alloy steel, Carbon steel seamless	55	2021
2	中国石油化工股份有限公司安庆分公司 Sinopec Anqing Company	炼油转化工结构调整项目 Refining to chemical industry structure adjustment project	高压，不锈钢焊接，低温钢，合金钢，碳钢焊接、无缝管件 High pressure, Stainless steel welded, Low-temperature steel , alloy steel, Carbon steel welded and seamless	20	2021
3	中国石化扬子石油化工有限公司 Sinopec Yangzi Petrochemical Company Limited	炼油结构调整项目 Refining structure adjustment project	高压，不锈钢焊接，低温钢，合金钢，碳钢焊接、无缝管件 High pressure, Stainless steel welded, Low-temperature steel , alloy steel, Carbon steel welded and seamless	12	2021
4	中国石化仪征化纤有限责任公司 Sinopec Yizheng Chemical Fibre Company Limited	300 万吨/年 PTA 项目 3 Million Tons / Year PTA Project	碳钢焊接、无缝管件 Carbon steel welded and seamless	5	2021
5	中国石油化工股份有限公司天津分公司 SINOPEC Tianjin Company	天津南港 120 万吨/年乙烯及下游高端新材料产业集群项目 Tianjin Nangang 1.2 million tons / year of ethylene and downstream high-end new material industrial cluster project	碳钢焊接、无缝，不锈钢焊接、无缝管件 Carbon steel welded and seamless, Stainless steel welded and seamless	5	2021

6	中石化洛阳工程有限公司 Luoyang Petrochemical Engineering Corporation Ltd	海南 100 万吨/年乙烯及炼油改扩建项目 Hainan 1 million tons / year of ethylene and oil refining renovation and expansion project	高压临氢, 高压, 碳钢、不锈钢无缝管件 High pressure hydrogen, high pressure, Carbon steel and Stainless steel	5	2021
7	中石化宁波镇海炼化有限公司 Sinopec Zhenhai Refining & Chemical Company	120 万吨/年乙烯及炼油改扩建项目 1.2 million tons / year ethylene and oil refining renovation and expansion project	高压, 不锈钢焊接、无缝, 碳钢焊接、无缝管件 High pressure, Stainless steel welded and seamless, Carbon steel welded and seamless	68	2020-2021
8	中石化巴陵石油化工有限公司 Sinopec Baling Company	巴陵石化己内酰胺产业链搬迁与升级转型项目 Caprolactam Industrial chain relocation and upgrading and transformation projects	高压, 不锈钢焊接、无缝, 碳钢焊接、无缝管件 High pressure, Stainless steel welded and seamless, Carbon steel welded and seamless	6	2020
9	中科(广东)炼化有限公司 ZhongKe (Guangdong) Refinery & Petrochemical Company Limited	1000 万吨/年炼油、80 万吨/年乙烯, 中科合资炼化一体化项目 10 million tons / year refining, 800,000 tons / year ethylene, Integration project	碳钢焊接、无缝, 不锈钢无缝管件 Carbon steel welded and seamless, Stainless steel seamless	28	2019
10	福建古雷石化有限公司 Fujian Gulei Petrochemical Co., Ltd	80 万吨/年乙烯, 古雷炼化一体化项目 800,000 tons / year of ethylene project	碳钢焊接、无缝管件 Carbon steel welded and seamless	24	2019
11	中国石化工程建设有限公司 Sinopec Engineering Incorporation	中化泉州二期 100 万吨乙烯及炼油改扩建项目 1 million tons of ethylene and oil refining renovation and expansion project	不锈钢焊接、无缝, 碳钢焊接、无缝管件 Stainless steel welded and seamless, Carbon steel welded and seamless	75	2019-2020
12	中国石化工程建设有限公司 Sinopec Engineering Incorporation	伊朗阿巴丹炼油厂升级改造项目 Iran Abadan refinery upgrading project	碳钢无缝管件 Carbon steel seamless	18	2019-2020
13	中安联合煤化工有限责任公司 Zhong AN United Coal Chemical Co., Ltd	煤制 170 万吨/年甲醇及转化烯烃项目 Coal to 1.7 million tons / year of methanol and conversion of olefin project	不锈钢焊接、无缝, 碳钢焊接管件 Stainless steel welded and seamless, Carbon steel welded	32	2018
14	中国石油化工股份有限公司 石家庄炼化分公司 Sinopec Shijiazhuang Refining & Chemical Company	800 万吨/年油品质量升级及原油劣质化改造项目 8 million tons / year oil quality upgrading and crude oil inferior transformation projects	碳钢焊接、无缝管件 Carbon steel welded and seamless	8	2018
15	中天合创能源有限责任公司 Zhongtian Hechuang Energy Co., Ltd	鄂尔多斯煤炭深加工示范项目 Ordos Coal Deep processing Demonstration Project	不锈钢无缝, 碳钢无缝管件 Stainless steel seamless, Carbon steel seamless	36	2016-2017
16	中国石化工程建设有限公司 Sinopec Engineering Incorporation	福建联合石化环氧乙烷/乙二醇(EO/EG)项目 Fujian United Petrochemical EO/EG Project	不锈钢焊接、无缝管件 Stainless steel welded and seamless	8	2014-2015
17	中国石化工程建设有限公司 Sinopec Engineering Incorporation	中化泉州一期 1200 万吨/年炼油项目 12 Million ton / year refining project	不锈钢焊接、无缝, 碳钢焊接、无缝管件 Stainless steel welded and seamless, Carbon steel welded and	26	2012-2013

			seamless		
18	中沙(天津)石化有限公司 Sinopec Sabic Tianjin Petrochemical Co. Ltd.	100 万吨/年乙烯炼化一体化项目 One million tons / year of ethylene refining integration project	碳钢焊接、无缝管件 Carbon steel welded and seamless	22	2008-2009
19	中国石化工程建设有限公司 Sinopec Engineering Incorporation	普光气田净化厂天然气脱硫项目 Puguang Gas field Purification Plant Natural gas desulfurization project	碳钢焊接、无缝管件 Carbon steel welded and seamless	12	2007-2008
20	中国石化青岛炼化有限责任公司 Sinopec Qingdao Petrochemical Co. Ltd	青岛 1000 万吨/年炼油项目 Qingdao 10 million tons / year oil refining project	不锈钢焊接、无缝，碳钢焊接、无缝 管件 Stainless steel welded and seamless, Carbon steel welded and seamless	23	2006-2007

Overseas Projects

serial number	Project name	Specifications, models and main parameters	Quantity	Total contract price (10,000 yuan)	Order date	Contract number
1	Iran Abadan Refinery Upgrade Plan Project	Specifications: DN50-DN1600 Material: 304	11043	943.7413	2018	13300000-18-MY4715-0017 13300000-18-MY4715-0008
2	Hengyi (Brunei) PMB Petrochemical Project	specifications: DN50-DN2200 Material: 304	3011	1054.8051	2018	W1620171167-002 W1620171167-004
3	Overseas contract	specifications: DN50-DN300 Material: 316L、31803	10076	69.896182	2019.	DQ190417-H067C-+11
4	ExxonMobil Huizhou Chemical Complex Project	specifications: 18"-104" Material: Q245R 20#	1000	446.407628	2021	1300000-20-MY4712、13、15、16
5	Iran Abadan Refinery Upgrade Plan Project	specifications: DN50-DN1600 Material: 304	11043	943.7413	2018	13300000-18-MY4715-0017 13300000-18-MY4715-0008

Production & Quality Control Flow Chart

高压厚壁管件生产工艺流程及质量控制图

THE PRODUCTION & QUALITY CONTROL FLOW CHART FOR HIGH-PRESSURE HEAVE-WALL FITTINGS



管制对焊管件生产工艺流程及质量控制图

THE PRODUCTION & QUALITY CONTROL FLOW CHART FOR PIPE BUTT-WELDING FITTINGS



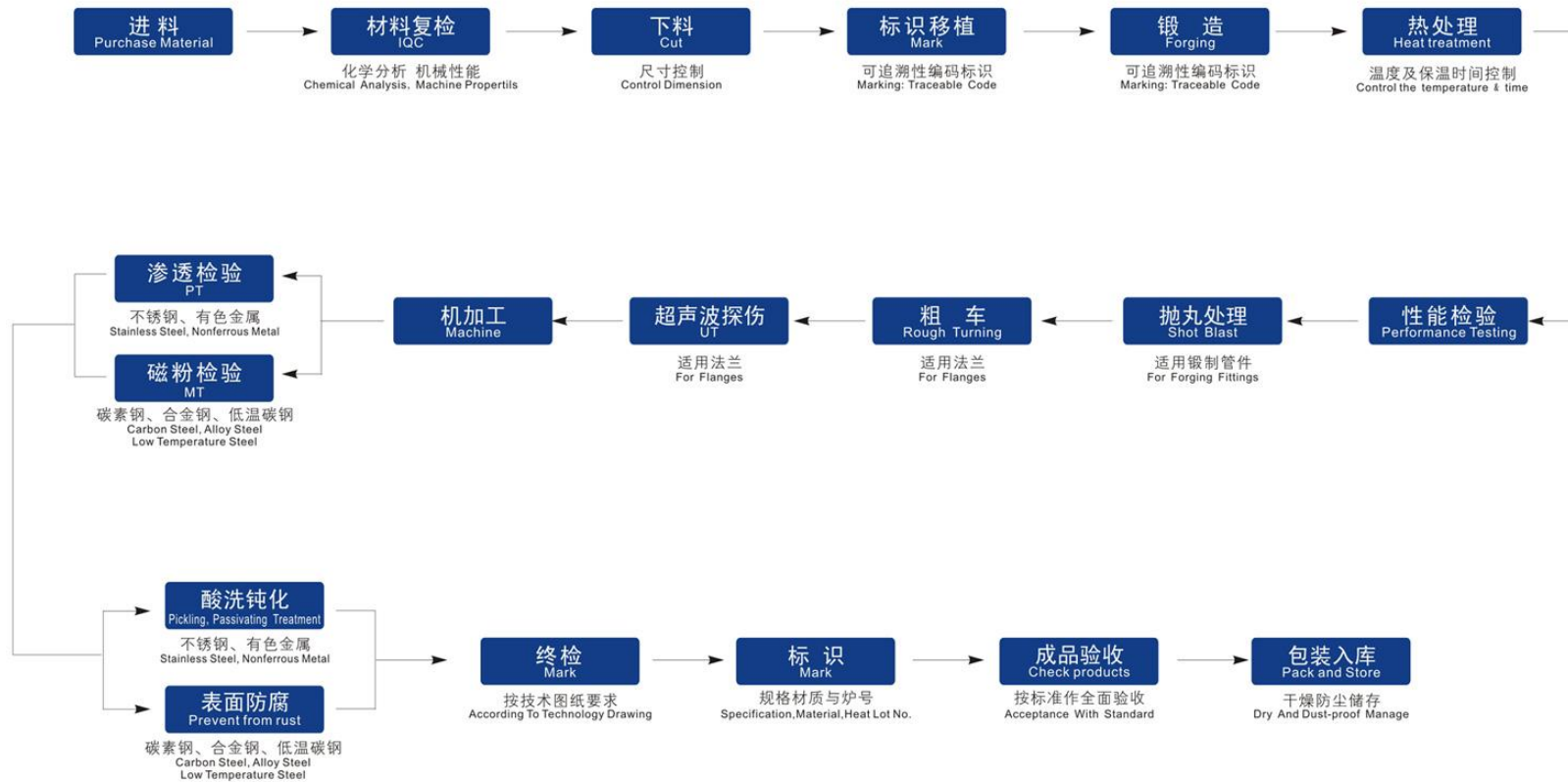
板制对焊管件生产工艺流程及质量控制图

THE PRODUCTION & QUALITY CONTROL FLOW CHART FOR PLATE BUTT-WELDING FITTINGS



锻制管件、法兰生产工艺流程及质量控制图

THE PRODUCTION & QUALITY CONTROL FLOW CHART FOR FORGING FITTINGS AND FLANGES



Main Production Equipments

Serial No.	Name of equipment	Quantity	Specification and model	Description of properties	Date of being put into use	Remarks
1	Intermediate frequency hydraulic pipe bender	7 units/set				
	Intermediate frequency hydraulic pipe bender	2	EDW-1520	Pipe fittings caliber $\leq\phi 1520$ Thickness of wall of $\phi 1520$ roasting elbow $\delta=50\text{mm}$ $R\leq 6D$	2007	
	Intermediate frequency hydraulic pipe bender	3	EDW-1220	Pipe fittings caliber $\leq\phi 1220$ Thickness of wall of $\phi 1520$ roasting elbow $\delta=50\text{mm}$ $R\leq 6D$	2012	
	Intermediate frequency hydraulic pipe bender	1	EDW-1020	Pipe fittings caliber $\leq\phi 1020$ Thickness of wall of $\phi 1520$ roasting elbow $\delta=50\text{mm}$ $R\leq 6D$	2012	
	Intermediate frequency hydraulic pipe bender	1	EDW-508	Elbow caliber $\leq\phi 711$ Thickness of wall of $\phi 1520$ roasting elbow $\delta=50\text{mm}$ $R\leq 6D$	2007	
2	Hot-pressing forging equipment	3 units/set				
	Four-column hydraulic machine	1	10000T	1. Hot-pressing three-way $\leq\text{DN}2500$ $\delta=100\text{mm}$ 2. Hot-pressing elbow $\leq\text{DN}2500$ $\delta=100\text{mm}$ 3. Hot-pressing large and small head $\leq\text{DN}2500$ $\delta=100\text{mm}$	2009	
	Four-column hydraulic machine	1	8000T	1. Hot-pressing three-way $\leq\text{DN}2500$ $\delta=100\text{mm}$ 2. Hot-pressing elbow $\leq\text{DN}2500$ $\delta=100\text{mm}$ 3. Hot-pressing large and small head $\leq\text{DN}2500$ $\delta=100\text{mm}$	2003	
	Four-column hydraulic machine	1	2500T	1. Hot-pressing three-way $\leq\text{DN}1800$ $\delta=100\text{mm}$ 2. Hot-pressing elbow $\leq\text{DN}2000$ $\delta=100\text{mm}$	2007	
3	Pushing machine	4 units/set				
	Intermediate frequency heating pushing machine	1	DN1000	$\phi 1020$ elbow, $\delta\leq 60\text{mm}$	2011	
	Intermediate frequency heating pushing machine	1	DN700	$\phi 711$ elbow, $\delta\leq 40\text{mm}$	2007	
	Intermediate frequency heating pushing machine	1	DN300	$\phi 325$ elbow, $\delta\leq 20\text{mm}$	2007	
	Intermediate frequency pushing large-diameter single-welding joint elbow machine	1	DN1500	Pipe fittings caliber $\leq\phi 1520$ $\delta=50\text{mm}$	2010	

4	Elbow cold pushing device	3 units/set				
	Elbow cold pushing machine	1	DN500	φ520 elbow, δ≤20mm	2014	
	Elbow cold pushing machine	1	DN100	φ114 elbow, δ≤20mm	2014	
	Elbow cold pushing machine	1	DN300	φ325 elbow, δ≤20mm	2014	
5	Cold extrusion three-way equipment	3 units/set				
	Three-way colding pressure forming machine	1	DN600	φ610 three-way, δ≤30mm	2014	
	Three-way colding pressure forming machine	1	DN300	φ325 three-way, δ≤20mm	2014	
	Three-way colding pressure forming machine	2	DN100	φ114 three-way, δ≤20mm	2014	
6	Stainless steel pickling passivation tank	2 set				
	Passivation equipment of stainless steel products	1			2014	
	Sewage and acid mist treatment equipment	1			2014	
7	Plate rolling equipment	2 units/set				
	Pipe winding machine	1		Rolling thickness≤40mm	2006	
	Hydraulic three-roller plate rolling machine	1	WD11-100×2500	Rolling thickness≤100mm	2009	
8	Heat treatment (heating) equipment	6 units/set				
	Gas heat treatment furnace	1	16×4.5×4	Heat treatment for elbow and piping	2013	All have the time, temperature automatic recording device
	Gas heat treatment furnace	1	6×3.2×2.8	Heat treatment of large-diameter pipe fittings	2013	
	Gas heating furnace	1	2.8×3.6×2.5	Used for heating and molding of pipe fittings	2013	
	Gas heating furnace	1	2.8×3×2.5	Used for heating and molding of pipe fittings	2013	
	Resistance furnace	1	0.4×0.4×0.8	Heat treatment of small pipe fittings and test specimens	2011	
	Bogie-hearth resistance furnace	1	1.5×1.5×2.5	Heat treatment of small pipe fittings and test specimens	2008	

	Thermocouple	42		Temperature monitoring	2008	
	Automatic temperature recorder	6		Automatic temperature recording (circular disk curve)	2008	
9	Machining equipment	22 units/set				
	Special groove machine	2		Groove machining of small elbow	2007	
	Electric beveling machine	1	Q1225-III	Pipe end beveling≤DN1200	2006	
	Electric pipe end beveling machin	2	Q1200	Pipe end beveling≤DN1200	2009	
	Electric pipe end beveling machin	1	Q12150	Pipe end beveling≤DN1500	2007	
	Electric pipe end beveling machine	3	Q12100	Pipe end beveling with cutting diameter (straight section) of φ219-1500mm ≤DN1500 δ≤100mm	2007	
	Single-head groove machine	3	DP426	Pipe end beveling	2007	
	Power head beveling machine	1	φ610	Pipe end beveling	2007	
	Power head beveling machine	1	φ508	Pipe end beveling	2011	
	Power head beveling machine	1	DN200-450	Pipe end beveling	2011	
	Three-way groove machine	1	DN200	φ219 three-way,δ≤20mm	2013	
	Elbow beveling machine	1	DN200	φ219 elbow,δ≤20mm	2014	
	Vertical lathe	1	C5225-H	Pipe end groove of ≤DN1200, ≤δ100	2012	
	Ordinary lathe	1	CW6263C (2000)	Lathe processing	2014	
	Ordinary lathe	1	CD6140A (1500)	Lathe processing	2014	
	Vertical drilling machine	1	TOYE		2009	
	Horizontal boring machine	1	T612	Lathe processing	2015	
10	Feeding equipment	14 units/set				
	Metal band sawing machine	1	GB4235	The maximum diameter of φ350	2014	

	Metal band sawing machine	1	GB4028	The maximum diameter of φ280	2014	
	Metal band sawing machine	1	GA4245	The maximum diameter of φ450	2010	
	Metal band sawing machine	1	G-650	The maximum diameter of φ280	2014	
	Semi-automatic cutting machine	3	CG1-30	---	2009	
	Pipe cutting machine	6	CG2-11	---	2009	
	Plasma cutting machine	1	LGK-200D		2015	
11	Detection platform	2 units/set				
	Large platform	2	10×4		2009	
	Small platform	1	4×2		2009	
12	Welding equipment	14 units/set				
	DC electric welder	4	Zx5-500	-----	2008	
	CO2 DC electric welder	3	Nbc-500c	-----	2009	
	AC welder	4	Yk-505f	-----	2007	
	AC welder	2	Bx1-250	-----	2007	
	Automatic submerged arc welder	1	ZD5-1250	-----	2008	
13	Surface treatment equipment	5 units/set				
	Hook type sandblasting machine	1	H2WGQW1220	Sandblasting of all large workpieces and special-shaped workpieces	2007	
	Hook type sandblasting machine	1	DN1500	Sandblasting of all large workpieces and special-shaped workpieces	2007	
	Horizontal elbow sandblasting machine	1	DN1000	Suitable for sandblasting of elbow of less than DN1000	2007	
	Horizontal elbow sandblasting machine	1	QGW6914W	Suitable for sandblasting of elbow of less than DN1400	2011	
	Drum shot blasting machine	1	Q311OD	Sandblasting of workpieces of small diameter	2014	

14	Anticorrosive equipment	3 units/set				
	Epoxy powder electrostatic spraying machine	1	EPG-11	The maximum spraying diameter of DN1200, number of single spraying layer is two	2011	
	Epoxy powder electrostatic spraying machine	1	1420	The maximum spraying diameter of DN1400, number of single spraying layer is two	2013	
	Double component spraying machine	1	XM	Used for the double component spraying of pipeline	2011	

Main Inspection Equipments

Serial No.	Name of equipment	Quantity	Specification and model	Description of properties	Date of being put into use	Remarks
1	Mechanical property equipment					
	Pendulum impact testing machine	JBN-500	1	The maximum impact energy is 500J	2008	
	Impact specimen low-temperature groove	CDW-60	1	Range of reduced temperature: -60~30°C ±0.5°C	2008	
	Impact specimen notch projector	CST-50	1	The maximum magnification: 50X	2013	
	Universal material testing machine	WAW-1000	1	Tensile and bending test of specimen Maximum force: 1000KN Grade I	2013	
2	Hardness gauge					
	Leeb hardness tester	HLN-11A	2	Measuring range: (109-198)HBW±0.8%	2008	
	Leeb hardness tester	TH110	2	Measuring range: (170~960)HLD ±6HLD	2011	
	Brinell hardenss tester	HBC hampper type	1	Brinell hardness measurement 0.01	2008	
3	Chemical analysis equipment					
	Mobile metal spectrometer	SPECTROTE ST	1	Accuracy of the quantitative analysis of C, Si, Mn, S, P, Cr, Mo, V, Ni, Ti, B, Nb, AL of ±0.01%	2006	
	Direct reading spectrometer	TESTTXC01	1	All kinds of elements in the metal	2007	
	Emission spectrometer	WPE-22	5	390-700nm0.05-0.11 mm	2009	

	Carbon sulfur analyzer	N-HW2000B	1	Carbon/ sulfur: 0.00001-99.99990.00001%	2013	
	Visible spectrophotometer	722	1	325-1000nm±2nm	2013	
4	Nondestructive testing equipment					
	X-ray detector	XXHP-3005	2	Penetration of 47mm	2012	
	X-ray detector	XXQ-3505	2	Penetration of 60mm	2011	
	Ultrasonic flaw detector (plate carbon, welding joint carbon)	PXUT-350	3	Detection range: 0-6000mm≥55dB	2008	
	Ultrasonic flaw detector (plate carbon, welding joint carbon)	PXUT-350	3	Detection range: 0-6000mm≥55dB	2011	
	Magnetic particle flaw detector	CDX-III	7	Clearly display the groove on standard piece (15/100) A	2013	
	Penetrating agent	DPT-8	--	Penetrant for penetration testing	2010	
	Imaging agent	DPT-8	--	Imaging agent for penetration testing	2010	
5	Anti-corrosion testing equipment					
	Electric spark detector	DJ-6B	1	Range: 0.05-10mm	2011	
	Coating thickness gauge	MC-2000C	2	Range: 0-5000μm<3%±1μm	2011	
	Anchor depth gauge	(0-5mm)	1	Range: 0-5mm0.002mm	2011	
6	Metallographic analysis equipment					
	Metallurgical microscope	BJ-B	1	Range of magnification: 100-500 X	2013	
7	Geometric size equipment					
	Feeler	0.02-1.00	1	Measuring range: 0.02-1.0mm0.02mm	2011	
	Universal angle ruler	0-320°	2	Measuring range: 0-320° 2'	2011	
	Vernier caliper	300mm	3	Measuring range: 0-300mm0.02mm	2012	
	Vernier caliper	150mm	4	Measuring range: 0-150mm 0.02mm	2012	
	Scale square	500*250	2	Measuring range:	2012	

				0-500mm/0-250mm1mm		
	Vernier caliper	1500mm	2	Measuring range: 0-1500mm0.02mm	2013	
	Vernier caliper	1000mm	2	Measuring range: 0-1000mm0.02mm	2013	
	Vernier caliper	500mm	3	Measuring range: 0-500mm0.02mm	2013	
	Ultrasonic thickness gauge	DC-1000B	2	Measuring range: 0.8-200mm±0.1mm	2008	
	Ultrasonic thickness gauge	DC-1000B	2	Measuring range: 0.8-200mm±0.1mm	2010	
8	Temperature detection device					
	Infrared thermometer	DT-8835	1	Temperature range: -50~1370°C Grade II	2013	
	Digital temperature indicating controller	2001 (K)	25	Temperature range: 0-1300°C 1.0	2014	
	Temperature recorder	ELSD65-000	8	Temperature range: 0-1200°C ±0.5%	2013	
	Temperature box	YJJ-R-A-100	1	Temperature range: 0-400°C 10°C	2014	
	Thermocouple	WRP131 (S)	30	Temperature range: 0-1300°C	2014	
	Thermocouple	WRN131 (K)	1	Temperature range: 0- 1200°C	2014	
	Thermocouple	WRN131 (K)	2	Temperature range: 0- 1200°C	2015	
	Radiation thermometer	SCIT08B	6	Temperature range: 300-1200°C ±1%tm	2008	
	Radiation thermometer	SCIT-2M1	1	1°C 300-1200°C	2015	
	Radiation thermometer	ST652	2	-25~560°C ±1.5 (+1°C)	2011	
9	Hydraulic testing equipment					
	Hydraulic testing machine	3DSY200/100	1	The maximum test pressure of 100MPa	2013	
10	Other equipments					
	Self-control drying box	ZYH-20	1	Range: 0-500°C	2009	
	Far-infrared welding electrode oven	ZYHC-30	1	Range: 0-500°C	2009	

	Roberval's balance	JPT-5	1	Maximum range: 500g0.5g	2013	
	Electronic balance	CP153	1	More than 100g 0.001g	2013	
	Electronic balance	FA2004	1	Maximum range: 200g GradeI	2013	

Main Product List

产品类别 Product Category	产品名称 Product Name	规格 Specification	制造标准Standard		常用材料Material	
			国标CHN	美标USA	国标CHN	美标USA
钢制对焊管件 Steel Butt-Welding Pipe Fittings	弯头 Elbow	无缝/焊接 (SMLS/WLD) , 等径/异径 (EL/ELR) , 45°/90°/180° , DN15 ~ DN3400 , SCH5S ~ SCH160	GB/T 12459 GB/T 13401 SH/T 3408 DL/T 695 GB/T 29168.2 EJ/T404	ASME B16.9 ASTM A234 ASTM A403 ASTM A420 ASTM A815 ASTM A960 MSS SP-43 MSS SP-75 MSS SP-79 MSS SP-95	20#, 20G, 20g, Q235B, Q245R, Q345R	ASTM A106 Gr.B ASTM A516 Gr.65 ASTM A387 Gr.5 ASTM A387 Gr.9 ASTM A387 Gr.11 ASTM A387 Gr.12
	三通 Tee	无缝/焊接 (SMLS/WLD) , 等径/异径 (T/RT) , DN15 ~ DN1600 , SCH5S ~ SCH160				ASTM A333 Gr.6
	四通 Cross	无缝/焊接 (SMLS/WLD) , 等径/异径 (CR/CRR) , DN15 ~ DN1200 , SCH5S ~ SCH160			16MnDG	
	异径管 Reducer	无缝/焊接 (SMLS/WLD) , 同心/偏心 (CON/ECC) , DN15 ~ DN3400 , SCH5S ~ SCH160			15CrMo(G)(R) 12Cr5Mo 12Cr2Mo(G) 12Cr1MoV(G) 10Cr9Mo1VNbN	ASTM A335 Gr.P5 ASTM A335 Gr.P9 ASTM A335 Gr.P11 ASTM A335 Gr.P22 ASTM A335 Gr.P91
	管帽 Cap	无缝/焊接 (SMLS/WLD) , DN15 ~ DN3400 , SCH5S ~ SCH160			06Cr19Ni10 022Cr19Ni10 06Cr17Ni12Mo2 022Cr17Ni12Mo2 06Cr18Ni11Ti 0Cr18Ni10Ti 06Cr18Ni11Nb 07Cr19Ni11Nb 022Cr19Ni5Mo3Si2N 022Cr23Ni5Mo3N	TP304 TP304L TP316 TP316L TP321 TP321H TP347 TP347H A815 S31803 A815 S32205
	翻边短节 Stub End	长型/短型 (L/S) , DN15 ~ DN600 , SCH5S ~ SCH160				

产品类别 Product Category	产品名称 Product Name	规格 Specification	制造标准Standard		常用材料Material	
			国标CHN	美标USA	国标CHN	美标USA
弯管 Bend	弯管 Bend	角度1°~180°, DN50~DN1500, 壁厚 $\delta \leq 60\text{mm}$	SY/T 5257 GB/T 29168.1 SH/T 3065 DL/T 515 EJ/T 406	ISO 15590.1 ASME B16.49	B, X52, X60, X65 X70, X80, X100 20 15CrMo 12Cr5Mo 12Cr2Mo 12Cr1MoV 06Cr19Ni10	L245, L360, L415, L450, L485, L555, L690 A106B P5 P9 P11 P22 TP304
锻制管件 Forged Fittings	弯头Elbow、三通Tee、四通Cross、管帽Cap、 单头/双头管箍Full/Half Coupling、异径管箍Reducing Coupling、 短节Straight Nipple、异径短节Swaged nipple、丝堵Plug、 内外螺纹接头Bushing、活接头Union、对焊支管台Weldolet、 承插支管台Socletolet、螺纹支管台Threadolet, CL2000/CL3000/CL6000/CL9000, DN6~DN600		GB/T 14383 GB/T 19326 SH/T 3410 SH/T 3419 SH/T 3424 HG/T 21632 EJ/T 168	ASME B16.11 ASTM A182 MSS SP-43 MSS SP-79 MSS SP-83 MSS SP-95 MSS SP-97	20 16Mn 15CrMo 12Cr1MoV 14Cr1Mo 12Cr2Mo1 1Cr5Mo	A105 F12 F11 F22 F5,5a F9 F91
法兰 Flange	对焊法兰Welding Neck Flange、平焊法兰Slip-On Flange、 承插焊法兰Socket-Welding Flange、松套法兰Lapped Joint Flange、 螺纹法兰Threaded Flange、法兰盖Blind Flange , RF/FF/FM/TG/RJ , PN11/PN20/PN50/PN68/PN110/PN150/PN260/PN420 , CL75/CL150/CL300/CL400/CL600/CL900/CL1500/CL2500 , DN15~DN1500		GB/T 9112~ 9124 GB/T 13402 GB/T 29168.3 SH/T 3406 HG/T 20592 HG/T 20615 HG/T 20623	ASME B16.5 ASME B16.47 ASME B16.36 MSS SP-44	16MnD 10Ni3MoVD 09MnNiD S30408(06Cr19Ni10) S30403(022Cr19Ni10) S31609(07Cr17Ni12Mo2) S31608(06Cr17Ni12Mo2) S31603(022Cr17Ni12Mo2) S32168(06Cr18Ni11Ti) S31668(06Cr18Ni12Mo2Ti) S34778(06Cr18Ni11Nb) S34779(07Cr18Ni11Nb)	LF2 LF3 F304H F304 F304L F316H, F316 F316L F321 F316Ti F347H F347
盲板 Line Blank	8字盲板Spectacle Blank、单盲板Paddle Blank、单垫环Paddle Spacer, FF/RF/LM/MRJ/FRJ , PN20/PN50/PN110/PN150/PN260/PN420 , CL150/CL300/CL600/CL900/CL1500/CL2500 , DN15~DN600		GB/T 4450 SH/T 3425 HG/T 21547	ASME B16.48		